Claims

1. A method for realizing Intelligent Network (IN) service, comprising:

A. setting an IN service as a combination of at least one service feature, and each service feature corresponding to a node type;

5   B. selecting one or more service features from the combination, and configuring one or more invoking relationships of the selected one or more service features, and each invoking relationship involving a head node and a tail node which is used for calling the head node, wherein a node that is always a tail node is a primary node and one primary node corresponds to one service user number; and

10   C. upon receiving a service request from a user terminal, determining the primary node based on the service user number corresponding to the service request; and performing the selected one or more service feature respectively by each of the nodes corresponding to the selected one or more service features, beginning from the primary node and according to the order of the invoking relationships, to implement 15 the IN service which the user terminal requests.

2. The method of Claim 1, wherein said selected one or more service features comprise any one or any combination of the features of: welcome message playing, language selection, originating calling number screening, routing, time-based routing, date-based routing, weekday-based routing, user-selection-based routing, proportional 20 call distribution, routing based on a circular way, authority.

3. The method of Claim 1, wherein any of the invoking relationship involving two nodes is a relationship of direct or indirect unilateral call.

4. The method of Claim 1, further comprising: configuring a table for saving nodes and a table for saving invoking relationships, and setting the index and dealing 25 type of the current node, the index of the next node of the current node, and their corresponding relationship;

the table for saving nodes comprising items of: indexes of the nodes, user sub-service identifiers, node types of service features, and parameters for indicating

whether a node is a primary node; and

the table for saving invoking relationships comprising items of: numbers of service users, and indexes of the head node and the tail node in each invoking relationship; and

5   in Step B, saving the information related to the selected one or more service features in the table for saving nodes and the table for saving invoking relationships respectively.

5. The method of Claim 4, in Step C, performing the selected one or more service features respectively, comprising:

10   C1. acquiring the node index of the primary node, node types of service features, and node indexes in the current sub-service procedure from the table for saving nodes based on the user sub-service identifiers;

C2. determining the node type of the service feature being processed currently, performing the corresponding service according to the node type determined, and on
15   performing the service, deciding the process result of the current sub-service procedure; if the process result is a next node index, taking the next node as the current node and returning to Step C2; if the process result is an attendant number, putting the current call through to an attendant by using the attendant number.

6. The method of Claim 5, Step C2 comprising:

20   C21. querying the corresponding relationship of the dealing type of the current node and the index of the next node of the current node according to the node index of the current node, and obtaining the dealing type of the current node;

C22. determining the processing mode according to the dealing type of the current node; if the processing mode involves playing voice, performing Step C23, if
25   the processing mode involves the next node index, performing Step C24, if the processing mode involves the attendant number, performing Step C25;

C23. obtaining the voice playing ID according to the destination identifier corresponding to the dealing type, playing the voice corresponding to the obtained

voice playing ID, and terminating the current call;

C24. acquiring the next node index corresponding to the dealing type, outputting the index and type of the next node, and terminating this sub-service procedure;

C25. obtaining the attendant number corresponding to the dealing type, outputting the attendant number, and terminating this sub-service procedure.